

Application No. 10/774,285  
Docket No. UC0406USCIP

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# Listing of Claims:

1. (Previously Presented) An active layer comprising at least one compound having a formula selected from Formula II and Formula III:

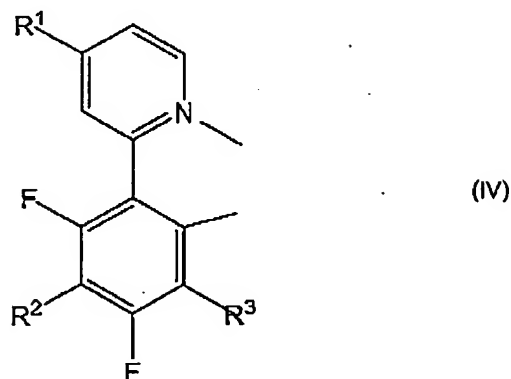
$PtL^1L^2$  (II)

$PtL^1L^3L^4$  (III)

where:

in Formulae II and III:

$L^1$  has Formula IV:



wherein:

$R^1 = H, R^4, OR^4, N(R^4)_2$

$R^2 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN$

$R^3 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN,$

$R^4$  is the same or different at each occurrence and is H, alkyl, aryl, or adjacent  $R^4$  groups can join together to form a 5- or 6-membered ring, and  $n$  is an integer from 1 through 20;

in Formula II:

$L^2$  is a phosphino alkoxide;

in Formula III:

$L^3$  is a monoanionic monodentate ligand; and

$L^4$  is a nonionic monodentate ligand.

Application No. 10/774,285

Docket No. UC0406USCIP

2. (Previously Presented) The active layer of Claim 1, wherein  $R^2$  and  $R^3$  are independently selected from H,  $CF_3$ ,  $C_2F_5$ ,  $n-C_3F_7$ ,  $i-C_3F_7$ ,  $C_4F_9$ ,  $CF_3SO_2$ ,  $COOR^4$  and CN.

3. (Canceled)

4. (Previously Presented) The active layer of Claim 1, wherein the compound has Formula III and  $L^3$  is a hydride.

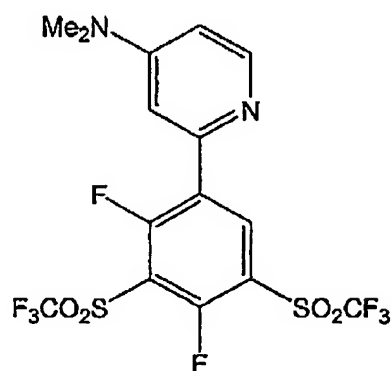
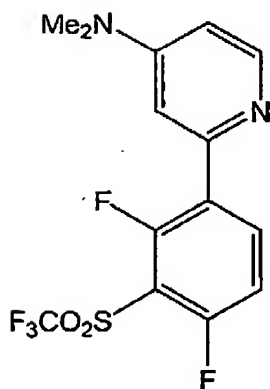
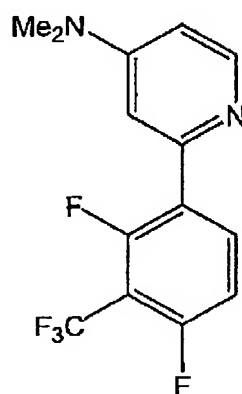
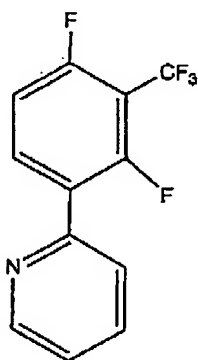
5. (Previously Presented) The active layer of Claim 1, wherein  $L^1$  is selected from ligand 1-a through 1-y:

Ligand	$R^1$	$R^2$	$R^3$
1-a	H	H	H
1-b	H	$CF_3$	H
1-c	H	COOMe	H
1-d	H	CN	H
1-e	$CH_3$	H	H
1-f	$CH_3$	$CF_3$	H
1-g	$CH_3$	COOMe	H
1-h	$CH_3$	CN	H
1-i	$CH_3$	H	H
1-j	t-butyl	H	H
1-k	OMe	$CF_3$	H
1-l	OMe	COOMe	H
1-m	OMe	CN	H
1-n	OMe	$CF_3$	$CF_3$
1-o	$NMe_2$	H	H
1-p	$NMe_2$	$CF_3$	H
1-q	$NMe_2$	COOMe	H
1-r	$NMe_2$	CN	H

Application No. 10/774,285  
Docket No. UC0406USCIP

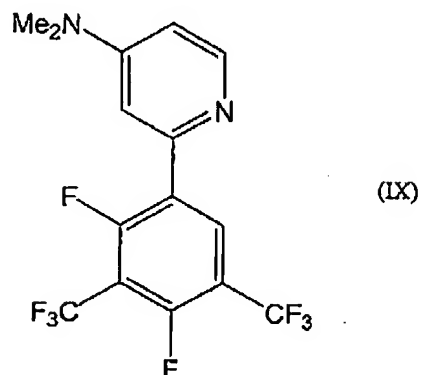
Ligand	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>
1-s	NMe <sub>2</sub>	CF <sub>3</sub> SO <sub>2</sub>	H
1-t	NMe <sub>2</sub>	C <sub>2</sub> F <sub>5</sub>	H
1-u	NMe <sub>2</sub>	CF(CF <sub>3</sub> ) <sub>2</sub>	H
1-v	NMe <sub>2</sub>	H	H
1-w	NPh <sub>2</sub>	CF <sub>3</sub>	H
1-x	NPh <sub>2</sub>	COOMe	H
1-y	NPh <sub>2</sub>	CN	H

6. (Previously Presented) The active layer of Claim 1, wherein L<sup>1</sup> is selected from Formula V, Formula VI, Formula VII, Formula VIII, and Formula IX:



Application No. 10/774,285

Docket No. UC0406USCIP



7. (Original) An organic electronic device comprising at least one active layer of Claim 1.

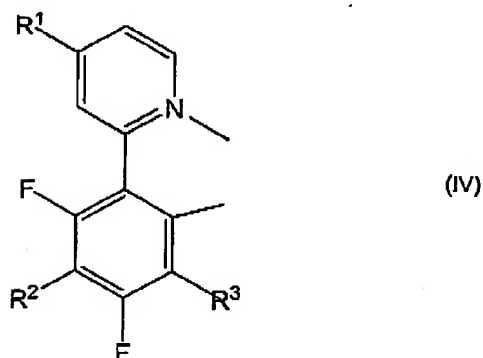
8. (Previously Presented) A compound having a formula selected from Formula II and Formula III:



where:

in Formulae II and III:

$L^1$  has Formula IV:



Application No. 10/774,285

Docket No. UC0406USCIP

wherein:

 $R^1 = H, R^4, OR^4, N(R^4)_2$  $R^2 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN$  $R^3 = H, C_nF_{2n+1}, C_nF_{2n+1}SO_2, COOR^4, CN,$ 

$R^4$  is the same or different at each occurrence and is H, alkyl, aryl, or adjacent  $R^4$  groups can join together to form a 5- or 6-membered ring, and  $n$  is an integer from 1 through 20;

in Formula II:

 $L^2$  is a phosphino alkoxide;

in Formula III:

 $L^3$  is a monoanionic monodentate ligand; and $L^4$  is a nonionic monodentate ligand.

9. (Previously Presented) The compound of Claim 8, wherein  $L^1$  is selected from ligands 1-a through 1-y:

Ligand	$R^1$	$R^2$	$R^3$
1-a	H	H	H
1-b	H	$CF_3$	H
1-c	H	COOMe	H
1-d	H	CN	H
1-e	$CH_3$	H	H
1-f	$CH_3$	$CF_3$	H
1-g	$CH_3$	COOMe	H
1-h	$CH_3$	CN	H
1-i	$CH_3$	H	H
1-j	t-butyl	H	H
1-k	OMe	$CF_3$	H
1-l	OMe	COOMe	H
1-m	OMe	CN	H
1-n	OMe	$CF_3$	$CF_3$
1-o	$NMe_2$	H	H

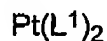
Application No. 10/774,285  
Docket No. UC0406USCIP

Ligand	R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>
1-p	NMe <sub>2</sub>	CF <sub>3</sub>	H
1-q	NMe <sub>2</sub>	COOMe	H
1-r	NMe <sub>2</sub>	CN	H
1-s	NMe <sub>2</sub>	CF <sub>3</sub> SO <sub>2</sub>	H
1-t	NMe <sub>2</sub>	C <sub>2</sub> F <sub>5</sub>	H
1-u	NMe <sub>2</sub>	CF(CF <sub>3</sub> ) <sub>2</sub>	H
1-v	NMe <sub>2</sub>	H	H
1-w	NPh <sub>2</sub>	CF <sub>3</sub>	H
1-x	NPh <sub>2</sub>	COOMe	H
1-y	NPh <sub>2</sub>	CN	H

10. (Previously Presented) A compound of Claim 8, wherein R<sup>2</sup> and R<sup>3</sup> are independently selected from H, CF<sub>3</sub>, C<sub>2</sub>F<sub>5</sub>, n-C<sub>3</sub>F<sub>7</sub>, i-C<sub>3</sub>F<sub>7</sub>, C<sub>4</sub>F<sub>9</sub>, CF<sub>3</sub>SO<sub>2</sub>, COOR<sup>4</sup> and CN.
11. (Canceled)
12. (Original) A compound of Claim 8, wherein the compound has Formula III and L<sup>3</sup> is a hydride.
13. (Canceled)
14. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 8.
15. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 9.
16. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 10.
17. (Canceled)

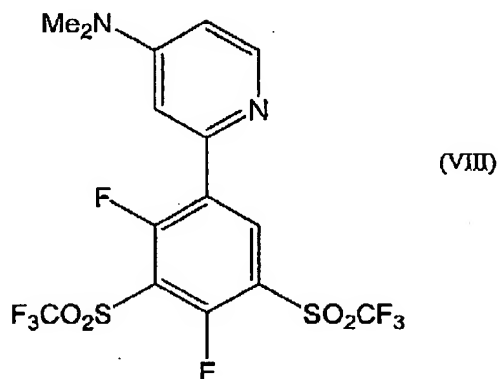
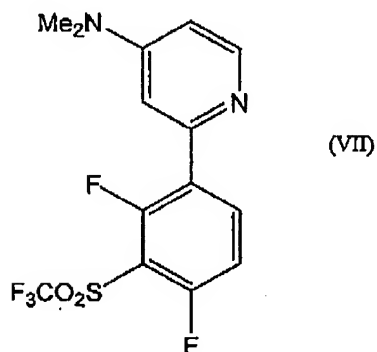
Application No. 10/774,285  
Docket No. UC0406USCIP

18. (Original) An organic electronic device comprising a layer that comprises the compound of Claim 12.
19. (Canceled)
20. (Original) An active layer of claim 1 further comprising a diluent.
21. (Original) An active layer of claim 20 wherein the diluent further comprises a material selected from a polymer, a small molecule, and a mixture thereof.
22. (Currently Amended) An active layer comprising at least one compound having Formula I



(I)

wherein  $\text{L}^1$  is selected from Formula VII and Formula VIII:



23. (New) The active layer of Claim 1, wherein the compound has Formula II.
24. (New) A compound having Formula II:

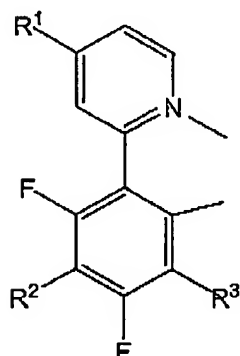
Application No. 10/774,285

Docket No. UC0406USCIP

PtL<sup>1</sup>L<sup>2</sup>

(II)

where:

L<sup>1</sup> has Formula IV:

(IV)

wherein:

R<sup>1</sup> = H, R<sup>4</sup>, OR<sup>4</sup>, N(R<sup>4</sup>)<sub>2</sub>R<sup>2</sup> = H, C<sub>n</sub>F<sub>2n+1</sub>, C<sub>n</sub>F<sub>2n+1</sub>SO<sub>2</sub>, COOR<sup>4</sup>, CNR<sup>3</sup> = H, C<sub>n</sub>F<sub>2n+1</sub>, C<sub>n</sub>F<sub>2n+1</sub>SO<sub>2</sub>, COOR<sup>4</sup>, CN,

R<sup>4</sup> is the same or different at each occurrence and is H, alkyl, aryl, or adjacent R<sup>4</sup> groups can join together to form a 5- or 6-membered ring, and n is an integer from 1 through 20; and

L<sup>2</sup> is a phosphino alkoxide.

25. (New) An active layer comprising at least one compound having a formula selected from Formula II and Formula III:

PtL<sup>1</sup>L<sup>2</sup>

(II)

PtL<sup>1</sup>L<sup>3</sup>L<sup>4</sup>

(III)

where:

in Formulae II and III:

wherein L<sup>1</sup> is selected from Formula VII and Formula VIII:



Application No. 10/774,285  
Docket No. UC0406USCIP

